

ABSTRACT

~~The present invention relates to a~~ A protein chip of a S-L-SP form wherein a substrate peptide (SP) is immobilized on a solid substrate (S) by the mediation of a linker protein (L), ~~as well as~~ Such chip is usefully employed in a method for analyzing the interaction between a reactive protein and its substrate peptide ~~using such a protein chip. This analysis method for the interaction between a reactive protein and its substrate peptide using the protein chip comprises~~ involving the steps of: adding ~~a reactive protein~~ to the protein chip, ~~the~~ a reactive protein showing a specific interaction with the substrate protein immobilized on the protein chip; and detecting the interaction between the reactive protein and the substrate peptide. The ~~present invention~~ use of such protein chip and methodology allows an increase in the reactivity between a peptide with low molecular weight and an enzyme with high molecular weight and between the peptide and a reactive antibody on the protein chip, so that the interaction between the peptide and the protein can be analyzed rapidly and massively.